Data Sheet

We make sure

FUJITSU COMPUTERS SIEMENS

# PRIMERGY TX200 S3

## Dual Socket Intel® Xeon® Server - Cost-efficient expansion options and failsafe operation

**Issue** February 9, 2007

**Pages** 2

**PRIMERGY TX Tower Servers ensure carefree and continuous operation with proven data center technology. Their design for maximum ease of use and ease of management has been honored with industry design awards. The latest processor generation combined with innovative air flow cooling technology ("Cool-safe") assure a long life and the highest possible performance at work. And as your business grows, so do our PRIMERGY towers, providing plenty of headroom for expansion so that you benefit longer from your investments in PRIMERGY tower servers. For corporate workgroups and remote sites, PRIMERGY TX servers ensure less troubleshooting and lower costs with their complete PRIMERGY ServerView Suite remote management functions – flexible management from anywhere at any time. Since corporate infrastructure is subject to consolidation changes, our universal tower-to-rack conversion kit protects your investment by prolonging the system's lifecycle.**

**The flexible custom supply model and our build-to-order process mean that only fully built and pre-tested solutions are shipped to customers, who can select from a broad family of tower models to meet their individual needs.**

### PRIMERGY TX200 S3

Flexible expansion options are the key to placing new or larger workloads on your server. This applies not only to physical capacity, such as the number of disk drives, advanced data protection schemes, or I/O connectivity; in particular consideration of the transition to 64-bit computing is a must in today's technology purchase decisions.
The PRIMERGY TX200 S3 is a perfect match for these requirements, providing you with a cost-efficient standard. TX200 is a failsafe operation platform for your application stacks, with standards such as disk mirroring, hot-plug disks, SDDC and hot-spare memory and the "Cool-safe™" innovative air flow system design. Expandability is covering for heavy workload: up to 16 GB FBD667 memory, up to 6 SCSI, SAS or SATA hard disk drives, and sufficient free PCI slots for heavy I/O requirements. Your business can rely on this solution!
In addition, further options – such as extended RAID functions, clustering options and redundancy for power supplies and fans – tailor these standards to your individual safety needs.

| Key Features | Benefits |
|---|---|
| ■ Intel Dual- or Quad-Core Xeon 5000 sequence and 2x 2 / 4 / 2x 4 MB SLC offer outstanding Dual-/Quad-Core performance and balanced architecture that incorporates next generation memory and I/O technologies | ■ Higher overall productivity through outstanding Dual-/Quad-Core performance with faster FSB, larger L2 cache etc and extended 64-bit address space and therefore more direct useable memory and performance |
| ■ Onboard 8-port SAS controller with low-cost ZCR RAID 0, 1, 10, 5, 50 option, or 2-channel U320 SCSI/RAID PCI controller or 6-port SATA controller with RAID 0, 1 (RAID 5 later) functionality<br>■ Hot spare memory | ■ Enhanced data reliability, business continuity right from the entry-class server, more value for money as well as added data safety |
| ■ Up to 6x hot-plug HDD (SAS, SCSI or SATA)<br>Hot-plug functionality is available as option for the most important system components: hot-plug, redundant PSU and system fans, integrated RSB Advanced Pack with e.g. disable local monitor function (options)<br>■ PCIe and PCI-X slots, 1x Gbit LAN | ■ Tailor made availability, offers the security level which is recommended by your individual application demands<br>■ Fast communication link through onboard PCI-Express interconnect |

| | |
|---|---|
| **Type** | Dual Socket Tower Server |
| **System board** | D 2109 |
| Chip set | Intel® 5000V |
| Processors | Dual- or Quad-Core Intel® Xeon® (1 - 2) |
| Frequencies (GHz) | 5050 (3.00) / 5060 (3.20), or 5110 (1.60), 5120 (1.86) / 5130 (2.00), 5140 (2.33) Dual-Core, or E5310 (1,60) E5320 (1.86) Quad-Core |
| Front-Side-Bus/Socket | 667 / 1066 / 1333; 1066 MHz (E5310/20) |
| Second-Level-Cache | 2x 2 / 4 (51xx) / 2x 4 MB (E53xx), ECC |
| **Memory** | 1 GByte bis max. 16 GByte |
| 2-way interleaved, registered ECC PC2-4200F/-5300F FullyBuffered DIMM RAM; 3 banks with 2 slots each for modules 512 MB, 1, 2 and 4 GB; SDDC (Chipkill) and hot-spare memory opt. | |
| **Flash-EPROM** | |
| Local BIOS update with floppy disk; Remote BIOS-Update via LAN with Global Flash and service partition | |
| **Interfaces** | |
| Serial 1 | 1x RS-232-C (9-pin) (usable for iRMC or system) |
| Serial 2 | 1x RS-232-C (9-pol) |
| Parallel (option) | Centronics, 25-pin, EPP/ECP comp. |
| Keyboard, Mouse | 2x PS/2 |
| USB 2.0 | 1x front, 2x back (UHCI, 480 Mbit/s)<br>2x internal for backup drive |
| Graphics | 1x VGA (15-pin) |
| LAN | 1x RJ45, 1x Service-LAN RJ45 |
| **Front Panel** | |
| On/off button; NMI-, reset button; front LEDs for hard disks access (green), power (amber/green); front and back for system status (amber), identification (blue), | |
| **Onboard controller** ** | |
| IDE (ATA100) | 1-channel Fast-IDE controller for 1 device |
| SAS variant (LSI1068) | 8-Port SAS controller with RAID 0, 1, 1E (1E requires 3 or more HDD´s) (also for SATA HDD´s) |
| RAID option (PCI card, ZCR) | RAID level 0, 1, 10, 5, 50 extension for onboard SAS controller (not for SATA HD) |
| SATA version (ESB2 onboard) | 6-Port SATA Controller with RAID level 0, 1,10 (RAID 5 Q2/07) |
| LAN (Intel® GilGal) | 1x 10/100/1000 Mbit/s Ethernet (PCE-Boot via LAN from PXE server) |
| Server management | Integrated Remote Management Controller (iRMC) incl. graphics controller, IPMI 2.0 |
| **PCI controller ** in SCSI base unit** | |
| LSI320/2 | 2-channel U320 SCSI/RAID 0, 1, 5 controller with 128 MB SDRAM ECC Cache and TBBU |
| **Hard disk drives** | 36, 73, 146, 300 Gbyte SAS (no mix with SATA)<br>80, 160, 250, 500 Gbyte SATA<br>36, 73, 146, 300 Gbyte SCSI |
| 1 Gbyte equals one billion bytes when referring to hard disk drive capacity; accessible capacity may vary. | |
| **I/O Slots (Standard)** | |
| 1x PCIe x8, long; 1x PCIe x8 (x4 wired), long; 2x PCI-X 64-bit/ 100 MHz, 1x long, 3,3V; (1 for ZCR in SAS variant, 1x occupied in SCSI version) (1x with max. 133 MHz (IOOP™), if only 1 slot is occupied) (with SAS only 66/100 MHz); 1x PCI 32-bit / 33 MHz, long, 5V | |
| **Drive bays** | |
| for hard disks | 6x 3.5/1-inch, hot-plug, slide-in chassis |
| for optional SCSI hard disks | 3x 3.5/1-inch, hot-plug, requires 2 bays for accessible drives |
| for accessible drives | 3x 5,25/1,6-inch free **or**;<br>2x 5,25/1,6-inch free<br>1x 5,25/0,5-inch for CD,DVD; CD-/DVD-RW<br>1x 3,5/1-inch occupied with FD |
| **System fans** | |
| Standard 2 fans<br>Hot-plug, redundant (option): (2 + 2) fans + 2 fans for CPU`s | |

| | |
|---|---|
| **Electrical values** | |
| 1x standard or 2x optional redundant hot-plug power supplies | |
| Output power | 600 W / 1 + 1 x 600 W each |
| Rated voltage range | 100 - 240 V |
| Rated frequency | 50 - 60 Hz |
| Max. rated current | 100 V - 240 V / 9.0 A – 5.0 A |
| Rated current in basic configuration | 100 V - 240 V / 4.4 A - 1.5 A |
| Active power | 798 W |
| Apparent power | 809 VA |
| Heat emission | 2873 kJ/h (2723 btu/h) |
| **Temperature/Noise/Dimension/Weight** | |
| Ambient temperature | 10°C - 35°C (DIN IEC 721-3-3) class 3K2 |
| Declared noise emission according to ISO 9296 | idle* operating* *(ISO 7779) |
| $L_{WAd}$ (1 B = 10 dB) : | 5,7 B*** 5,8 B*** |
| $L_{pAm}$ (bystander position): | 39 dB*** 40 dB*** |
| Floor-stand (HxWxD) | 473 x 286 x 775 mm |
| Rack (HxWxD) | 177 x 483 x 770 mm;<br>Rack mounting depth 735 mm; 4 U |
| Weight | 25 - 40 kg (configuration dependent) |
| **Compliance with Norm and Standards** | |
| **Product safety** | |
| Global | IEC 60950-1 |
| Europe | EN 60950-1 |
| USA | UL 60950-1 |
| Canada | CAN/CSA C22.2 No. 60950-1-03 |
| **Electro magnetic compatibility** | |
| Europe | EN 55022 class A, EN 55024,<br>EN 61000-3-3, EN 61000-3-2 |
| Taiwan / Japan | CNS 13438 class A; VCCI class A |
| Australia / New Zealand | AS / NZS CISPR 22 class A |
| USA / Canada | FCC class A |
| **Declaration of conformity** | |
| Europe (CE) | 89/336/EEC(EMC);73/23 EEC(LVD) |
| North America | FCC class A |
| **Approvals** | |
| **Product safety** | |
| Global | CB |
| Europe | CE |
| USA / Canada | $CSA_{US}$ / $CSA_{C}$ |
| There is general compliance with the safety requirements of all European countries and North America. National approvals required in order to satisfy statutory regulations or for other reasons, can be applied for on request. | |
| **Supported operating systems** | |
| Actual release status operating systems: e.g. Microsoft; SUSE; Red Hat; SCO; VMware see PRIMERGY released OS http://extranet.fujitsu-siemens.com/products/primergy/opsys/relcurrsys/osrel_a.html | |
| * No application support<br>** For supported controllers (onboard and PCI cards for SCSI, RAID, LAN, WAN, etc.), please refer to the corresponding system configurator.<br>*** only with standard fans and standard PSU | |
| **Server Management** (see separate data sheets) | |
| Standard: | PRIMERGY ServerView Suite;<br>PDA, ASR&R |
| Optional: | RemoteView, iRMC Advanced Pack |

All rights, including rights created by patent grant or registration of a utility model or design as well as rights of technical modifications are reserved. Delivery subject to availability. Designations may be trademarks, the use of which by third parties for their own purposes may violate the rights of the trademark owners.

Copyright © Fujitsu Siemens Computers, 02/2007

Published by

Fujitsu Siemens Computers
http://www.fujitsu-siemens.com/

Company stamp